# 7 Coastal Master Plan

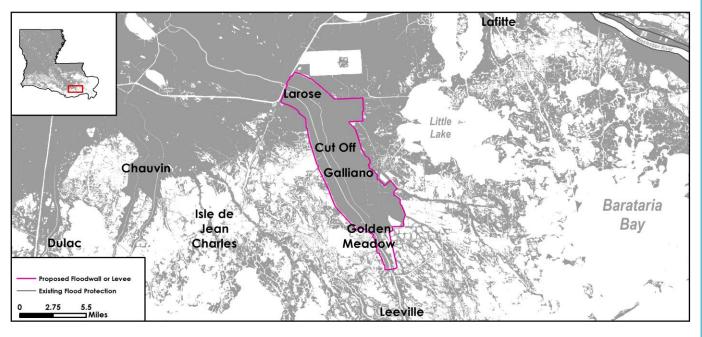
mplementation Period I

# **Larose to Golden Meadow**

#### **Structural Protection**

Project ID: 03a.HP.20





#### **Description**

Improvements to the existing Larose to Golden Meadow levee system, including raising to an elevation between 12 and 21 feet NAVD88. Project features approximately 249,900 feet of earthen levee and approximately 6,700 feet of T-wall.

# **Project Cost Estimate**

	Estimatea Cost
Planning/Engineering & Design	\$43,800,000
Construction	\$303,100,000
Operations & Maintenance	\$8,600,000
Total	\$355,500,000

### Other Nearby Projects in the Master Plan

*	03a.F	IP.02b 002.S	SP.106	002.MC.05e	001.MC.102 PLA.05N LA.03N
TER.O2N	03a.HR.100	030	002.A	AC 04a	02.SP.100
03a.SP.100		LAF.02N		002,SP.1	02
03g.MC.100	03a.MC.09b	03a.RC.06	002.SP.1	03) Y	
W. W.	.RC.05 03a.MC.03p	LAF.0 03a.	01N MC.07	A. 3	A SECOND CO

#### Scale of Influence

	•		
Local	Sub-basin	Basin	Regional

#### **Project Location**

Lafourche Parish

#### **Project Duration**

Planning, Engineering, and Design is estimated to take 3 years. Construction is estimated to take 5 years.

Other Project Area Statistics			
Estimated Current Population			
U.S. Census (2010), U.S. Dept. of Energy Oak Ridge National Laboratory, Land Scan (2011)	21,900		
Percent of Population who are Low-to-Moderate Income	43%		
American Community Survey (2006 - 2010)			
Number of Severe Repetitive			
Loss Properties	32		
Governor's Office of Homeland Security (2015)			

# Larose to Golden Meadow

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#### **Economic Damage**

Structural protection projects are evaluated by how they reduce Expected Annual Damage (EAD) for a particular area. EAD represents the average direct economic damage projected to result from storm surge flooding events, from Category 1 or greater storms, in any given year, taking into account both the expected damage and the overall frequency of such storms occurring. EAD is a summary measure of the potential damage averaged over the entire distribution of possible flood events. Damage is also summarized at various return periods (DRP), e.g., 100-year damage being the damage with a 1% chance of occurring or being exceeded in a given year. The following are the economic damage summaries for the Future Without Action (FWOA) and Future With Project (FWP) conditions, for the project as a whole (Table 2), and for each Risk Region (Table 3). EAD and DRP values are reported in millions of dollars.

**Table 2: Expected Annual Damage** 

Year	FWOA	FWP	Difference		
0	\$1,184 M	-	-		
25	\$4,016 M	\$3,855 M	\$161 M		
50	\$11,472 M	\$10,676 M	\$796 M		

#### Critical Infrastructure

The data in Table 1 was provided by GOHSEP and the Homeland Security Infrastructure Program (HSIP). "Protected" assets are those that otherwise flood in FWOA conditions but are protected by the project.

Table 1: Critical Infrastructure Counts

Asset Type	Protected	Total
Airport Facility	-	-
Gas Processing	-	18
Government/Military	-	4
Electric Power Substation	2	80
Liquefied Natural Gas Terminal	-	1
Louisiana Offshore Oil Port	-	1
Manufacturing/Chemical	-	22
Electric Power Plant	-	54
Port	-	5
Petroleum Pump Station	-	17
Refinery	-	13
Water and Sewer	1	15
Strategic Petroleum Reserve	-	-
Total	3	229

Table 3: Economic Damage by Return Period at Year 50

Risk Region	50 Y	50 Year		100 Year		500 Year	
	FWOA	FWP	FWOA	FWP	FWOA	FWP	
Jefferson - Grand Isle	\$1,681 M	\$1,681 M	\$1,689 M	\$1,689 M	\$1,731 M	\$1,764 M	
Jefferson - Lafitte/Barataria	\$1,609 M	\$1,612 M	\$1,633 M	\$1,635 M	\$1,655 M	\$1,655 M	
Lafourche - Larose/Golden Meadow	\$9,480 M	\$44 M	\$9,657 M	\$354 M	\$9,711 M	\$1,477 M	
Lafourche - Lower	\$559 M	\$641 M	\$563 M	\$642 M	\$564 M	\$642 M	
Lafourche - Raceland	\$23,892 M	\$23,937 M	\$25,279 M	\$25,410 M	\$28,269 M	\$28,516 M	
Plaquemines - Grand Bayou	\$263 M	\$261 M	\$264 M	\$262 M	\$264 M	\$262 M	
St. Charles - Salvador	\$138 M	\$138 M	\$140 M	\$140 M	\$143 M	\$141 M	
Terrebonne - Houma	\$87,756 M	\$87,254 M	\$90,908 M	\$90,392 M	\$92,087 M	\$91,545 M	
Terrebonne - Lower	\$1,166 M	\$1,159 M	\$1,180 M	\$1,172 M	\$1,192 M	\$1,185 M	
Total	\$126,543 M	\$116,727 M	\$131,312 M	\$121,695 M	\$135,616 M	\$127,188 M	